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Figure 1b: Correct attachment of tubing

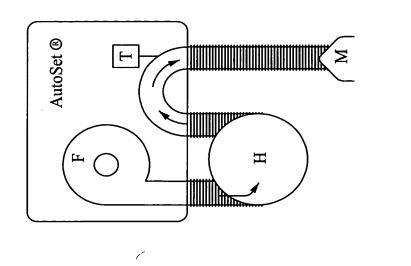
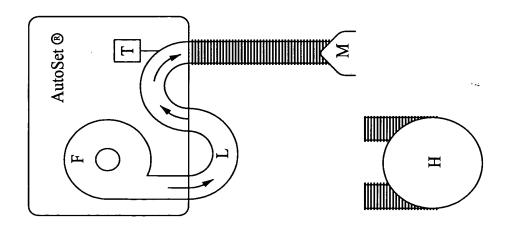


Figure 1a: Correct attachment of tubing



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Figure 1d: Incorrect attachment of tubing AutoSet ® \mathbf{H}

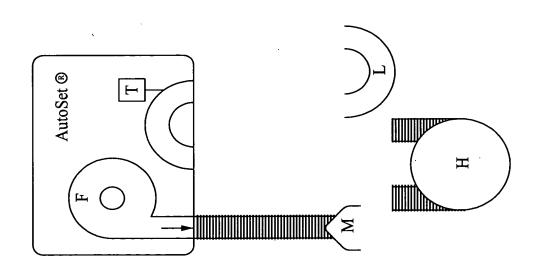


Figure 1c: Incorrect attachment of tubing

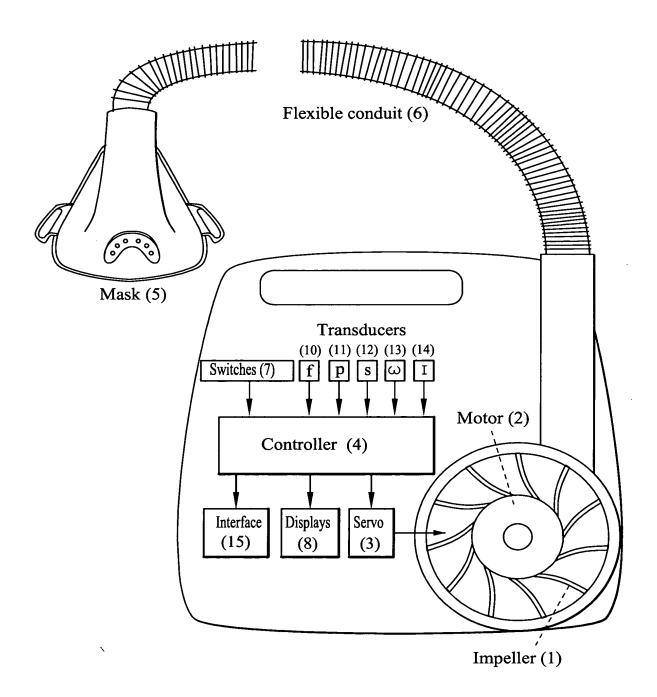


Figure 2: CPAP apparatus

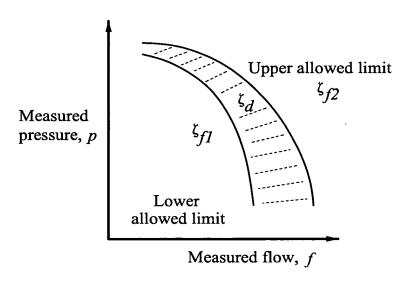


Figure 3a: High motor speed (ω) operation

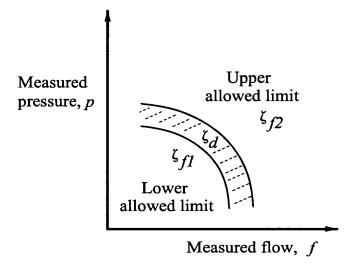


Figure 3b: Low motor speed (w) operation

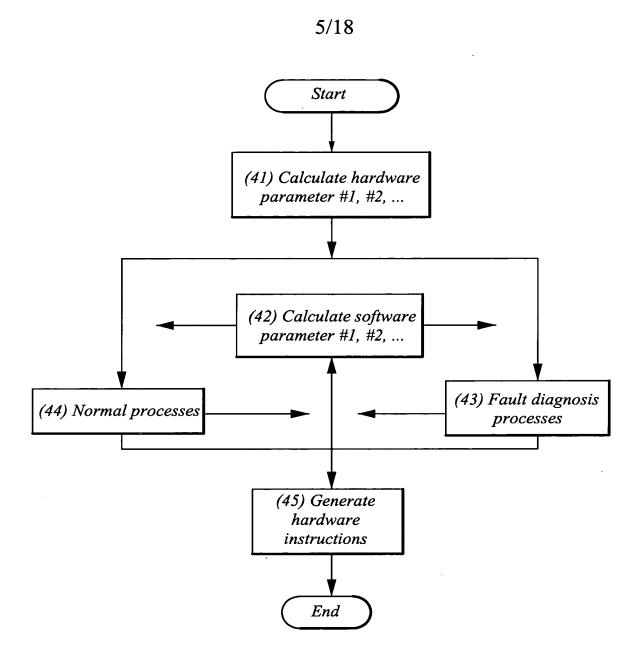


Figure 4: Fault diagnosis implemented in overall software processes

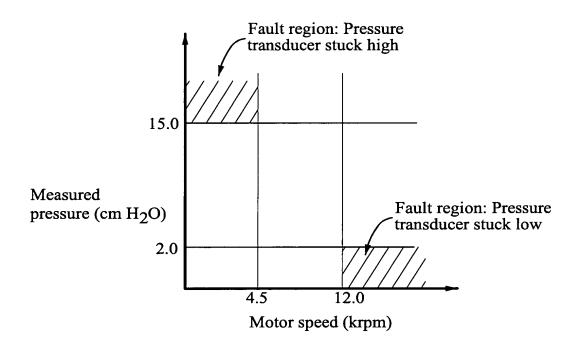


Figure 5: Pressure transducer fault regions

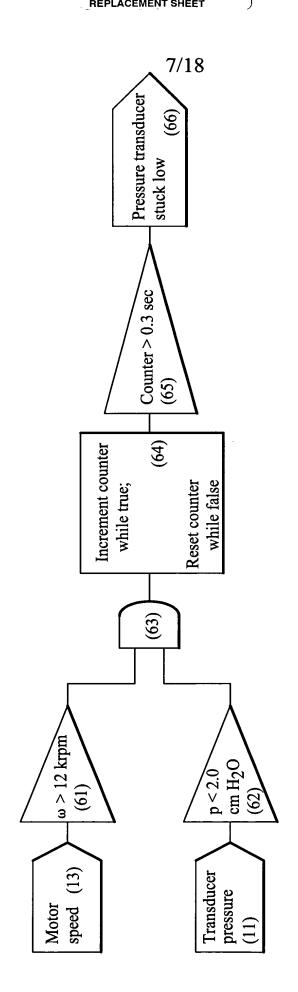


Figure 6: Detect Pressure Transducer Stuck Low

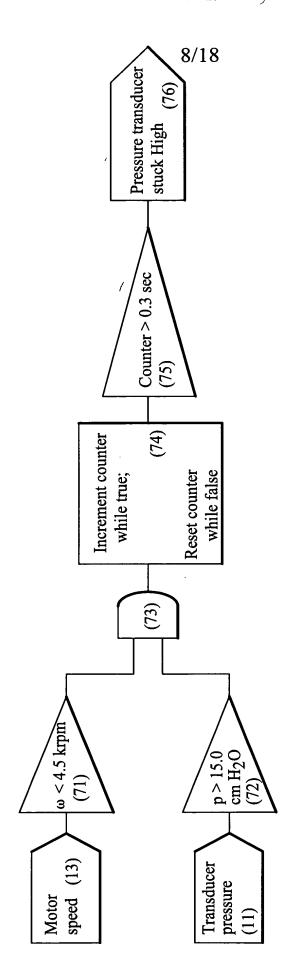


Figure 7: Detect Pressure Transducer Stuck High

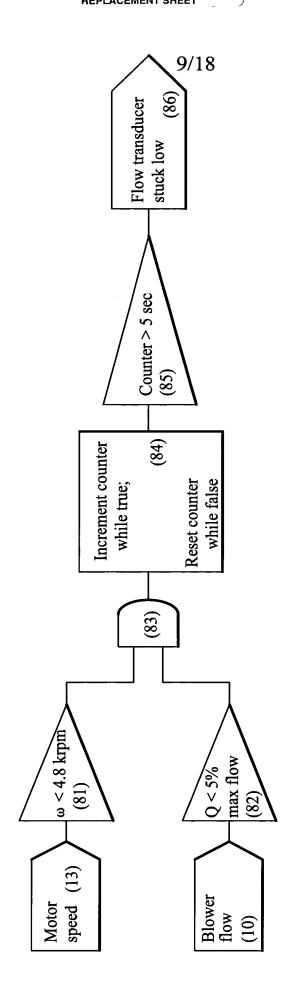


Figure 8: Detect Flow Transducer Stuck Low

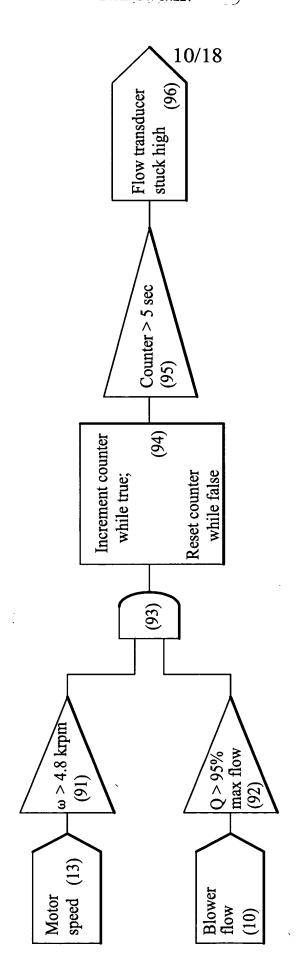


Figure 9: Detect Flow Transducer Stuck High

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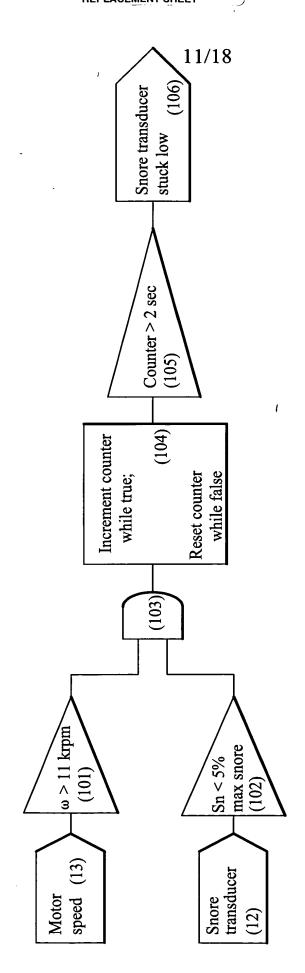


Figure 10: Detect Snore Transducer Stuck Low

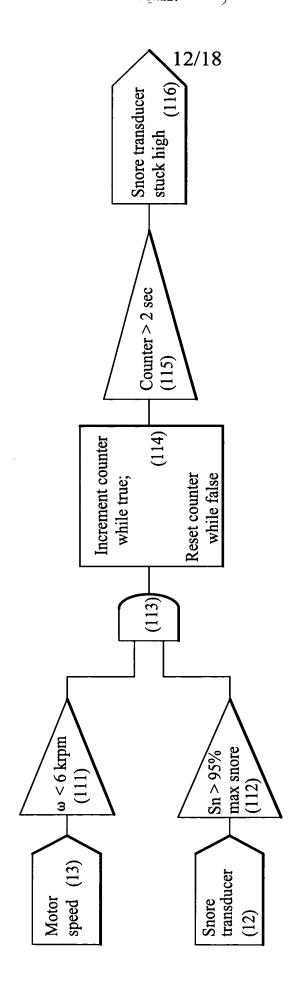
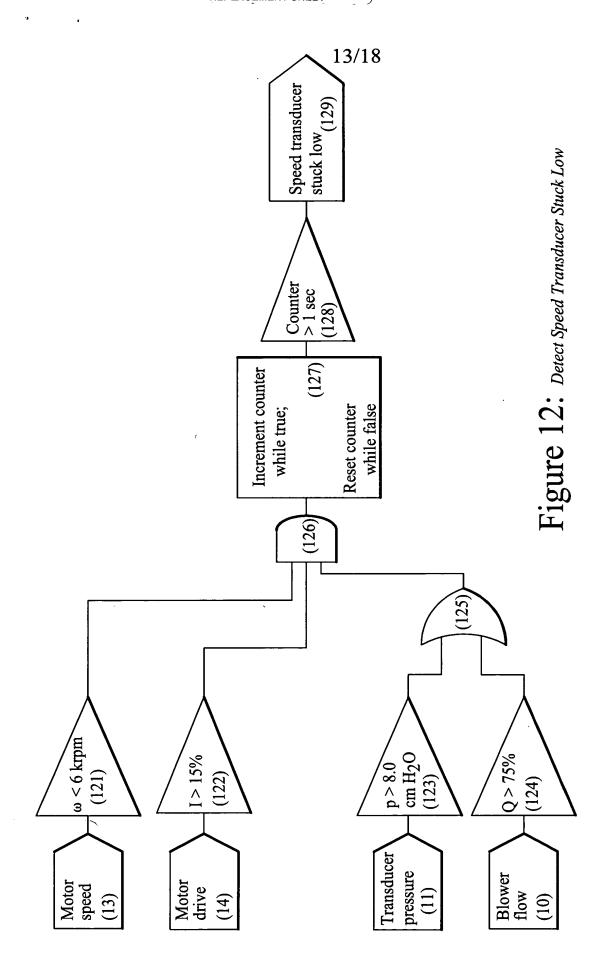
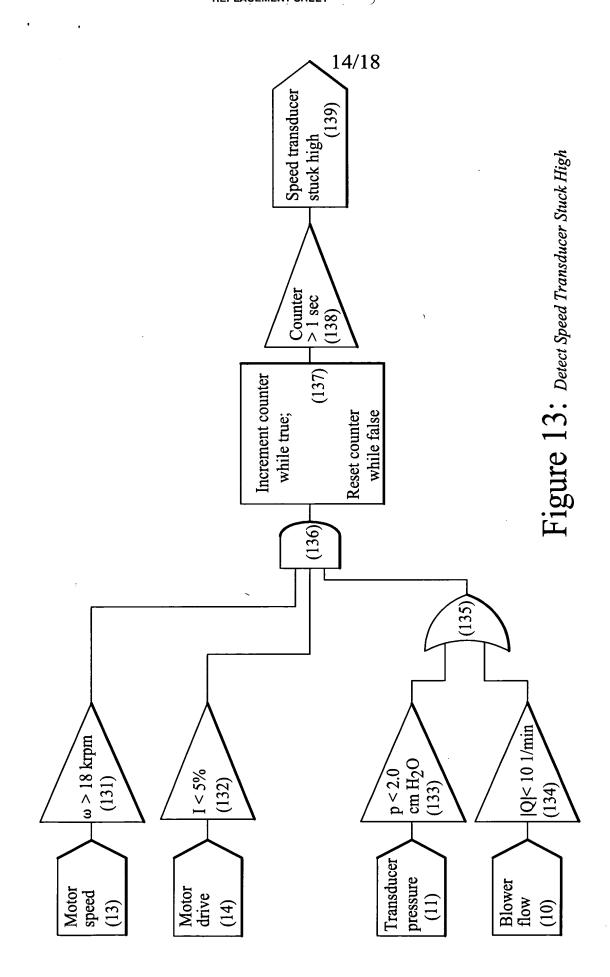


Figure 11: Detect Snore Transducer Stuck High





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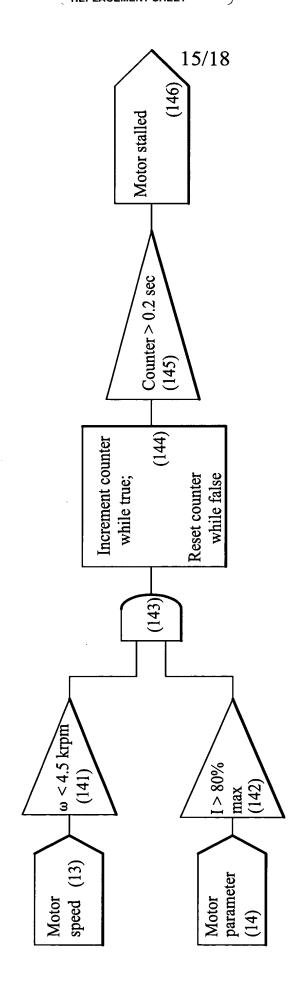


Figure 14: Detect Stalled Motor

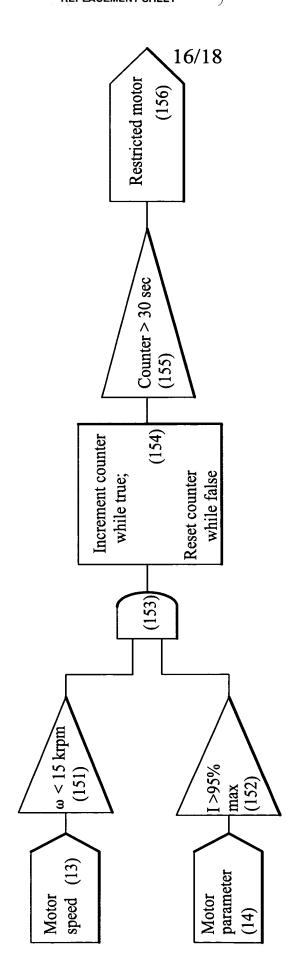


Figure 15: Detect Restricted Motor

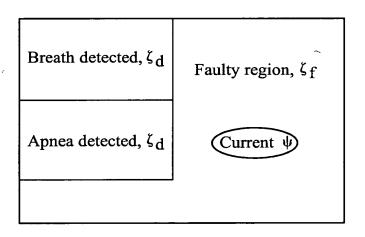


Figure 16: Software fault



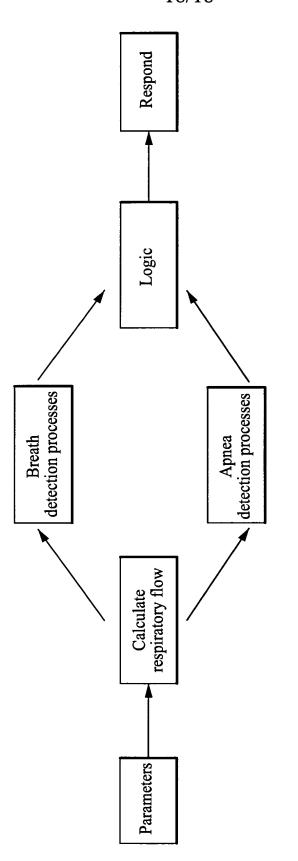


Figure 17: Software fault detection processes